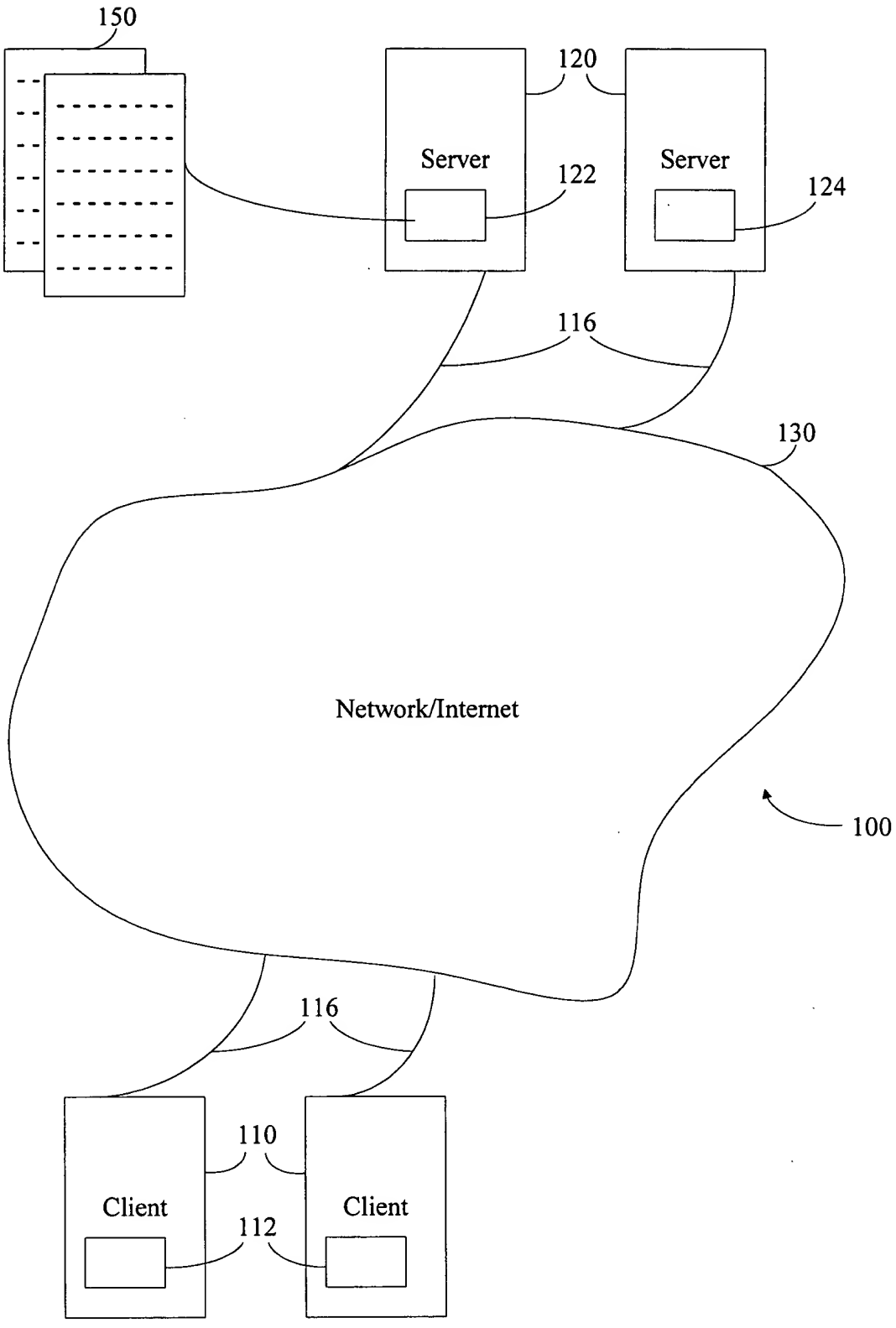
150
120
Server
122
Server
124
116
130
Network/Internet
100
116
110
Client
112
Client

Fig. 1a

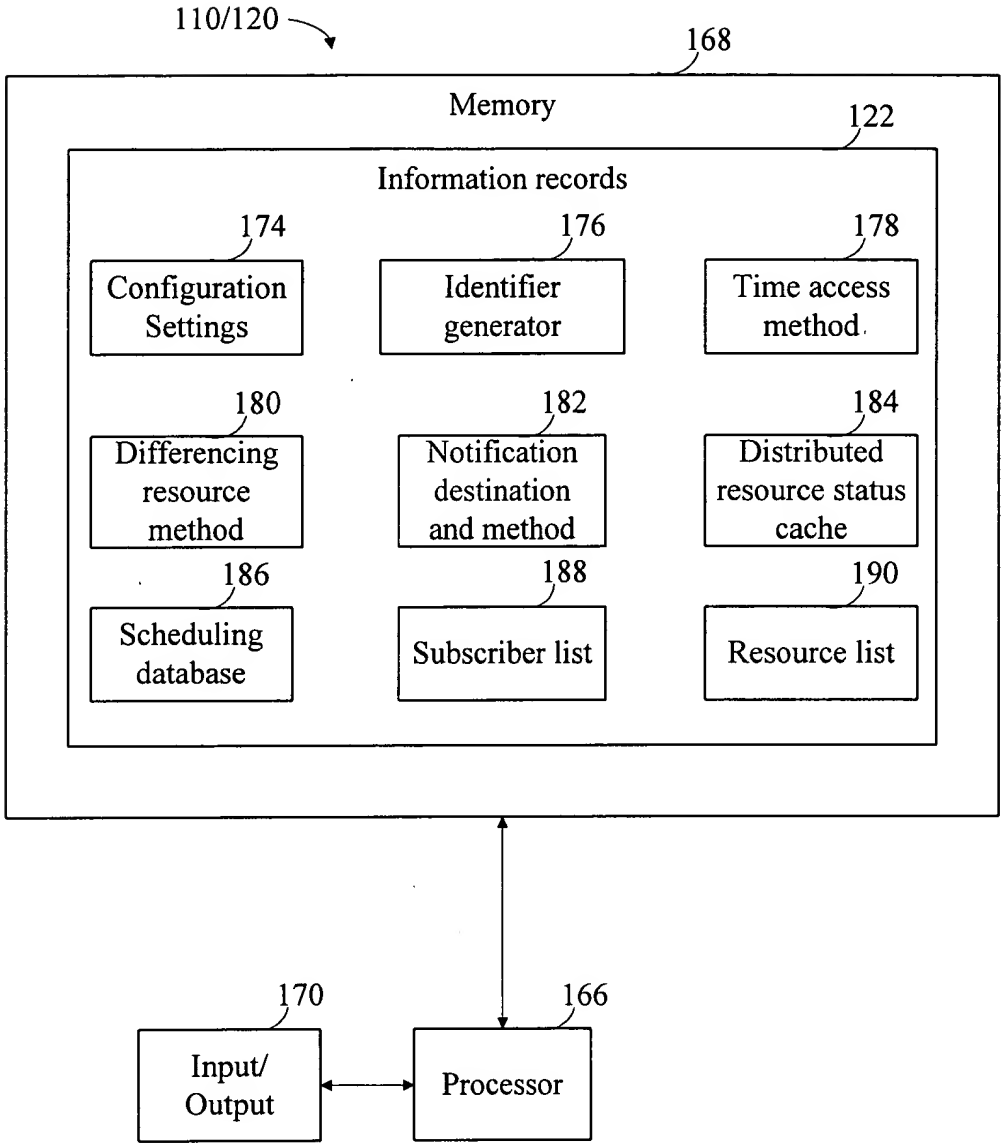
110/120
168
Memory
122
Information records
174
Configuration Settings
176
Identifier generator
178
Time access method
180
Differencing resource method
182
Notification destination and method
184
Distributed resource status cache
186
Scheduling database
188
Subscriber list
190
Resource list
170
Input/ Output
166
Processor

Fig. 1b

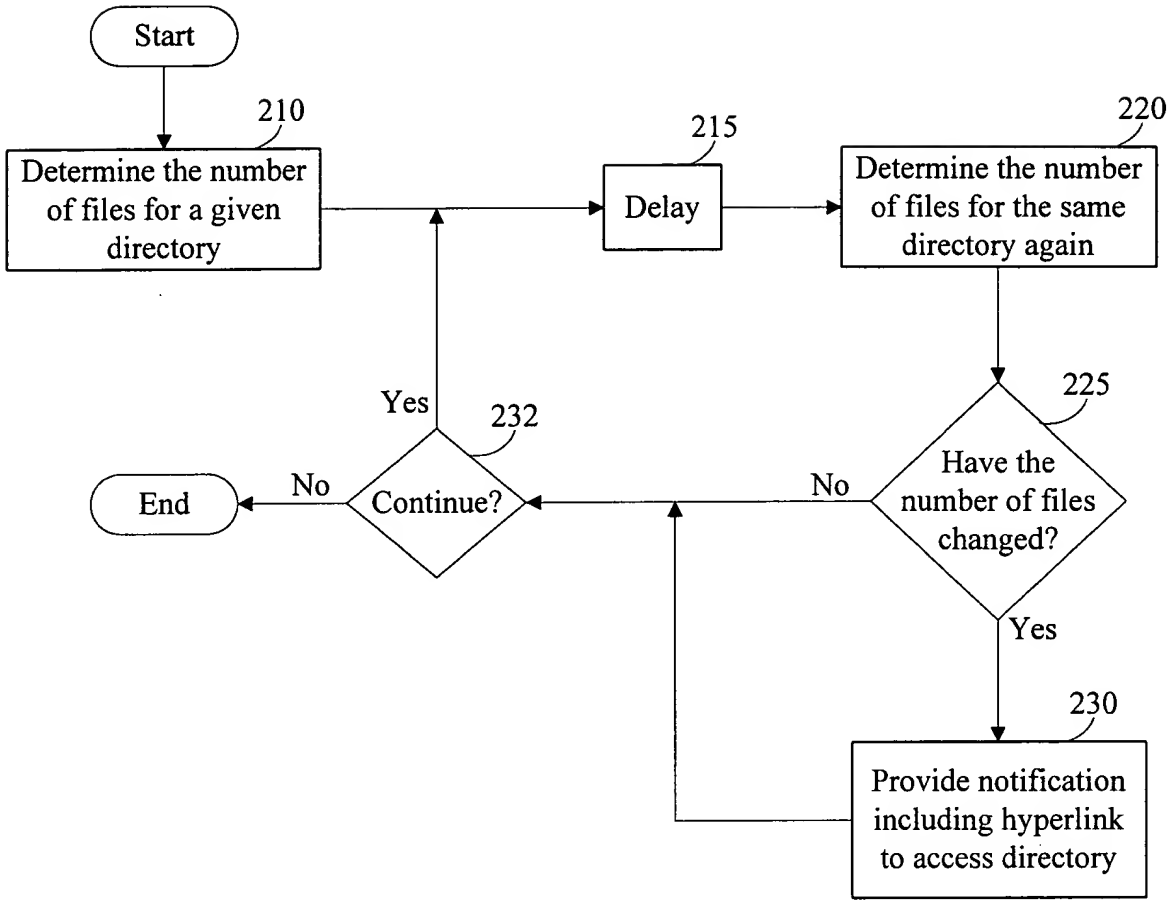
Start
210
Determine the number of files for a given directory
215
Delay
220
Determine the number of files for the same directory again
225
Have the number of files changed?
No
Yes
232
Continue?
No
Yes
End
230
Provide notification including hyperlink to access directory

Fig. 2a

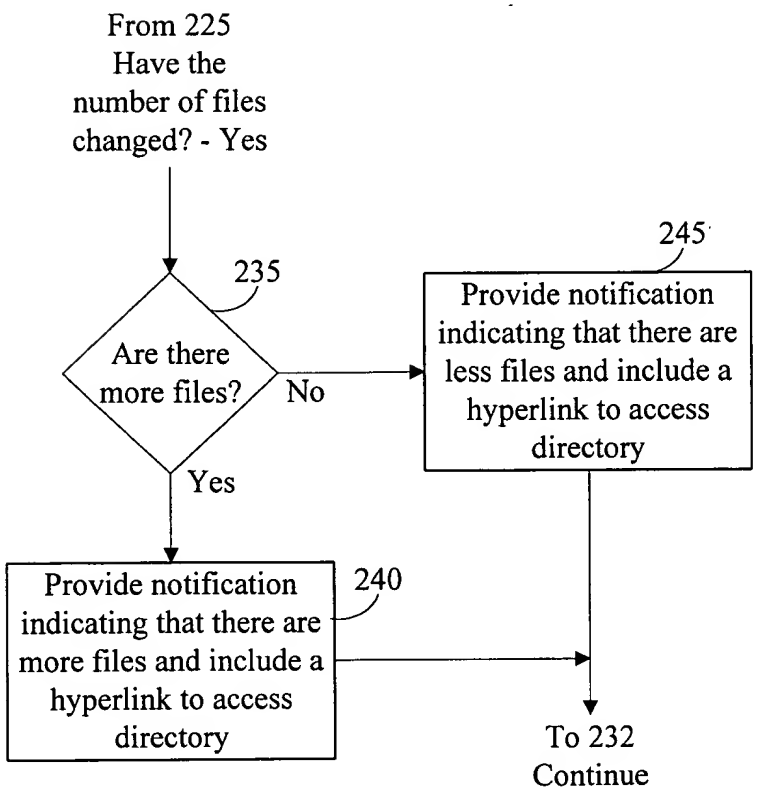
From 225
Have the number of files changed? - Yes
235
Are there more files?
No
Yes
245
Provide notification indicating that there are less files and include a hyperlink to access directory
240
Provide notification indicating that there are more files and include a hyperlink to access directory
To 232
Continue

Fig. 2b

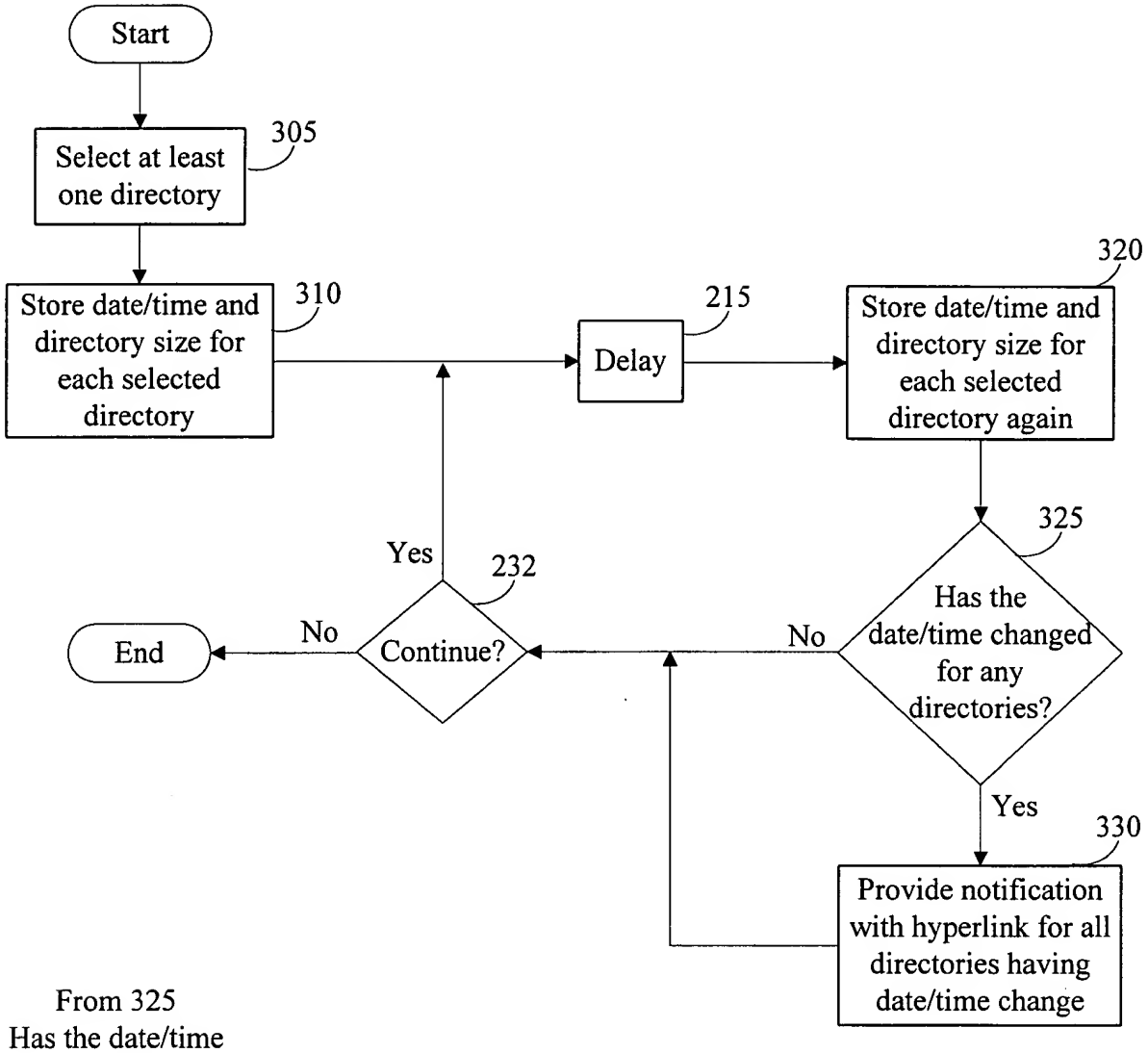
Start
Select at least one directory
305
Store date/time and directory size for each selected directory
310
Delay
215
Store date/time and directory size for each selected directory again
320
Has the date/time changed for any directories?
325
Yes
No
Continue?
232
Yes
No
End
Provide notification with hyperlink for all directories having date/time change
330

Fig. 3a

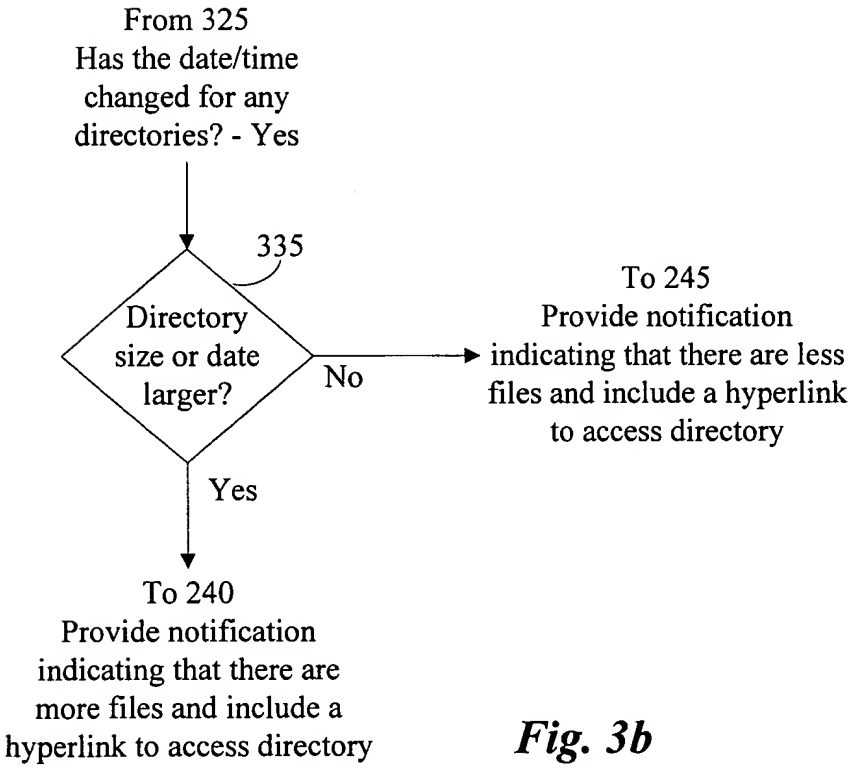
From 325
Has the date/time changed for any directories? - Yes
Directory size or date larger?
335
No
To 245
Provide notification indicating that there are less files and include a hyperlink to access directory
Yes
To 240
Provide notification indicating that there are more files and include a hyperlink to access directory

Fig. 3b

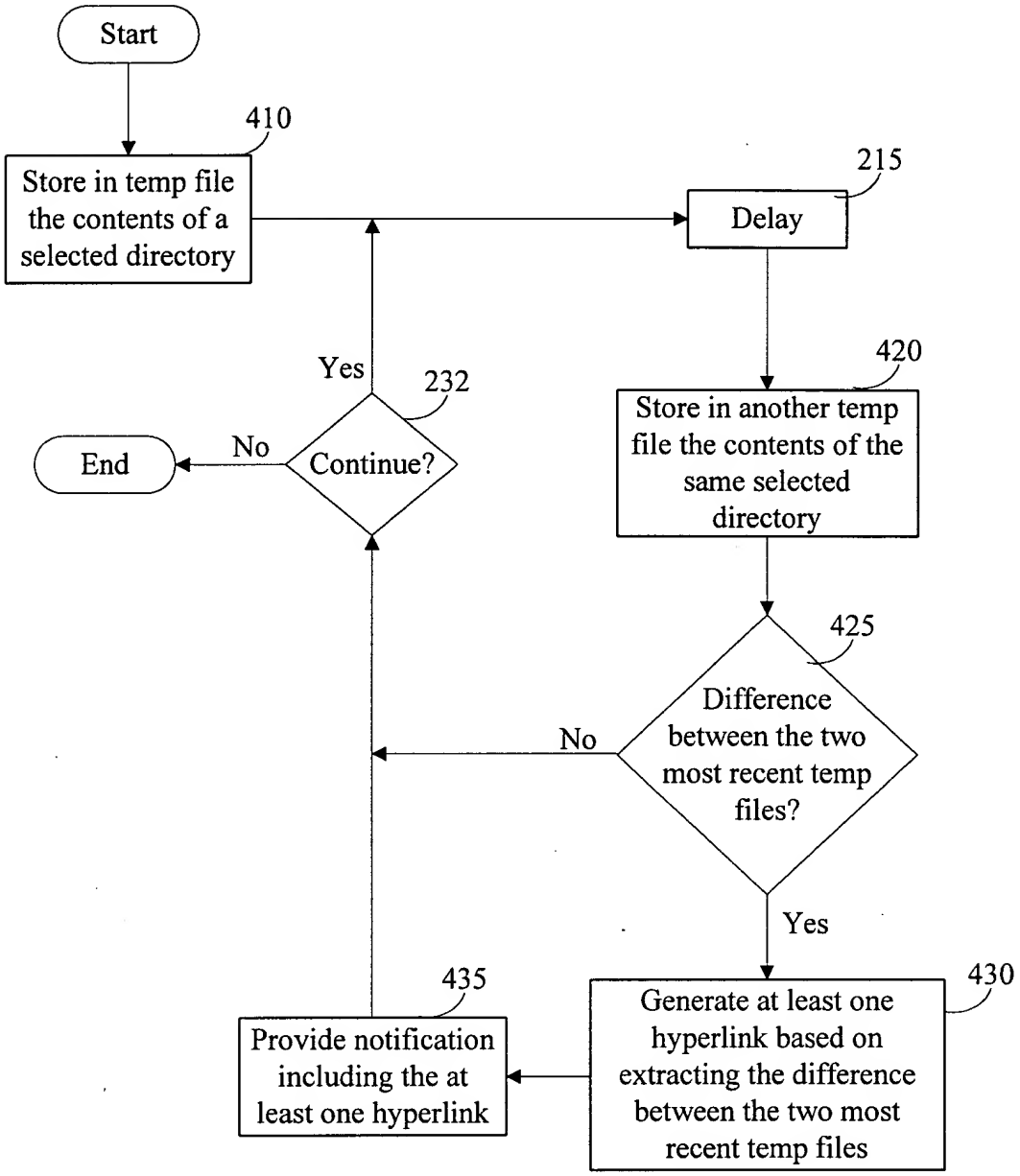
Start
410
Store in temp file the contents of a selected directory
215
Delay
420
Store in another temp file the contents of the same selected directory
425
Difference between the two most recent temp files?
No
Yes
430
Generate at least one hyperlink based on extracting the difference between the two most recent temp files
435
Provide notification including the at least one hyperlink
232
Continue?
Yes
No
End

Fig. 4

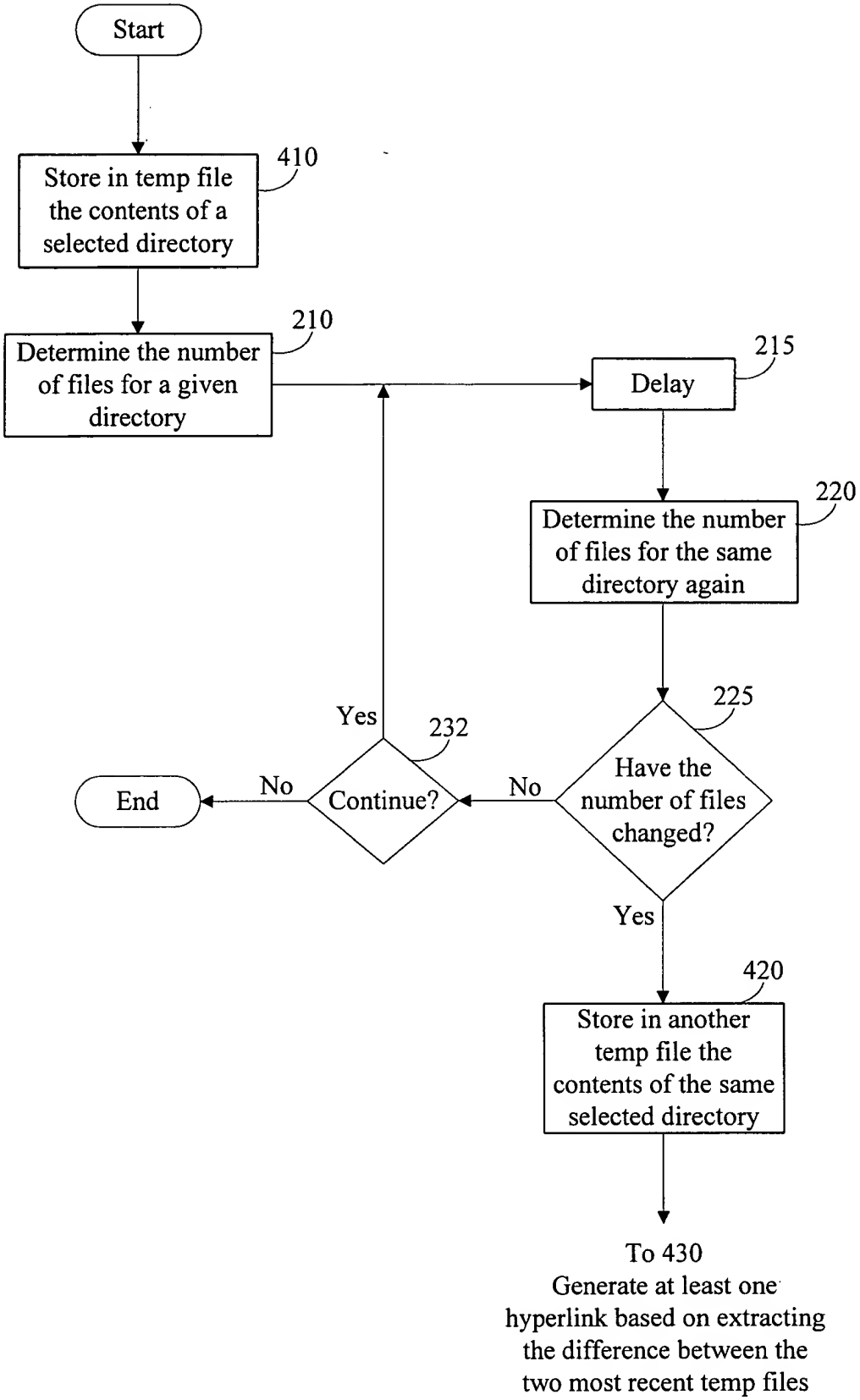
Start
Store in temp file the contents of a selected directory
410
Determine the number of files for a given directory
210
Delay
215
Determine the number of files for the same directory again
220
Have the number of files changed?
225
No
Continue?
232
Yes
No
End
Yes
Store in another temp file the contents of the same selected directory
420
To 430
Generate at least one hyperlink based on extracting the difference between the two most recent temp files

Fig. 5

Server: ftp.uspto.gov			Path: /pub/pubdata/1999		
			File Size	Date/Time	Filename
-rw-r--r--	1 101	80	1841	Aug 10 10:06	99week32.rpt
-rw-r--r--	1 101	80	29720	Aug 10 10:06	99week32.txt
-rw-r--r--	1 101	80	3883543	Aug 10 10:06	99week32.zip
-rw-r--r--	1 101	80	1199	Aug 17 11:45	99week33.rpt
-rw-r--r--	1 101	80	29440	Aug 17 11:45	99week33.txt
-rw-r--r--	1 101	80	378656	Aug 17 11:46	99week33.zip
-rw-r--r--	1 101	80	898	Aug 24 13:37	99week34.rpt
-rw-r--r--	1 101	80	24104	Aug 24 13:37	99week34.txt
-rw-r--r--	1 101	80	3128072	Aug 24 13:38	99week34.zip

Fig. 6a

Server: ftp.uspto.gov			Path: /pub/pubdata/1999		
			File Size	Date/Time	Filename
-rw-r--r--	1 101	80	1841	Aug 10 10:06	99week32.rpt
-rw-r--r--	1 101	80	29720	Aug 10 10:06	99week32.txt
-rw-r--r--	1 101	80	3883543	Aug 10 10:06	99week32.zip
-rw-r--r--	1 101	80	1199	Aug 17 11:45	99week33.rpt
-rw-r--r--	1 101	80	29440	Aug 17 11:45	99week33.txt
-rw-r--r--	1 101	80	378656	Aug 17 11:46	99week33.zip
-rw-r--r--	1 101	80	898	Aug 24 13:37	99week34.rpt
-rw-r--r--	1 101	80	24104	Aug 24 13:37	99week34.txt
-rw-r--r--	1 101	80	3128072	Aug 24 13:38	99week34.zip
-rw-r--r--	**1 101**	**80**	**1216**	**Aug 31 10:31**	**99week35.rpt**
-rw-r--r--	**1 101**	**80**	**26104**	**Aug 31 10:31**	**99week35.txt**
-rw-r--r--	**1 101**	**80**	**3296516**	**Aug 31 10:32**	**99week35.zip**

Fig. 6b

-rw-r--r--	1 101	80	1216	Aug 31 10:31	99week35.rpt
-rw-r--r--	1 101	80	26104	Aug 31 10:31	99week35.txt
-rw-r--r--	1 101	80	3296516	Aug 31 10:32	99week35.zip

Fig. 6c

```
<HTML><BODY><HR>
<A HREF="ftp://ftp.uspto.gov/pub/pubdata/1999/99week35.rpt">99week35.rpt</A><BR>
<A HREF="ftp://ftp.uspto.gov/pub/pubdata/1999/99week35.txt">99week35.txt</A><BR>
<A HREF="ftp://ftp.uspto.gov/pub/pubdata/1999/99week35.zip">99week35.zip</A><BR>
<HR></BODY></HTML>
```

Fig. 6d

ENTER SERVER AND DIRECTORY PATH TO FIND EXPECTED NEW URL

newfile.com | /weekly/update

OPTIONALLY ENTER THE EXPECTED FILENAME

99week35.zip

ENTER APPROXIMATE DATE/TIME RANGE TO FIND NEW URL

Publish Interval	Start Date	Start Time	End Time	Poll Interval	
Weekly ▼	8/31/99	9am	5pm	15	Minutes ▼
Hourly	End Date				Seconds
Daily					Hours
Monthly	9/1/99	9am	5pm		Days

ENTER NOTIFICATION METHOD AND ADDRESS

E-mail | patents@update.com | OK | Cancel

Fig. 7a

Server	newfile.com	anotherfile.com
Path	/weekly/update	/daily/update
Filename	99week35.zip	anotherweek.zip
Publish Interval	Weekly	Daily
Start Day	Tuesday	9/7/99
End Day	Wednesday	
Start Time	9am	12pm
End Time	5pm	5pm
Poll Interval	15 minutes	5 minutes
Notify Method	E-mail	Phone
Notify Address	patents@update.com	216-555-1212

Fig. 7b

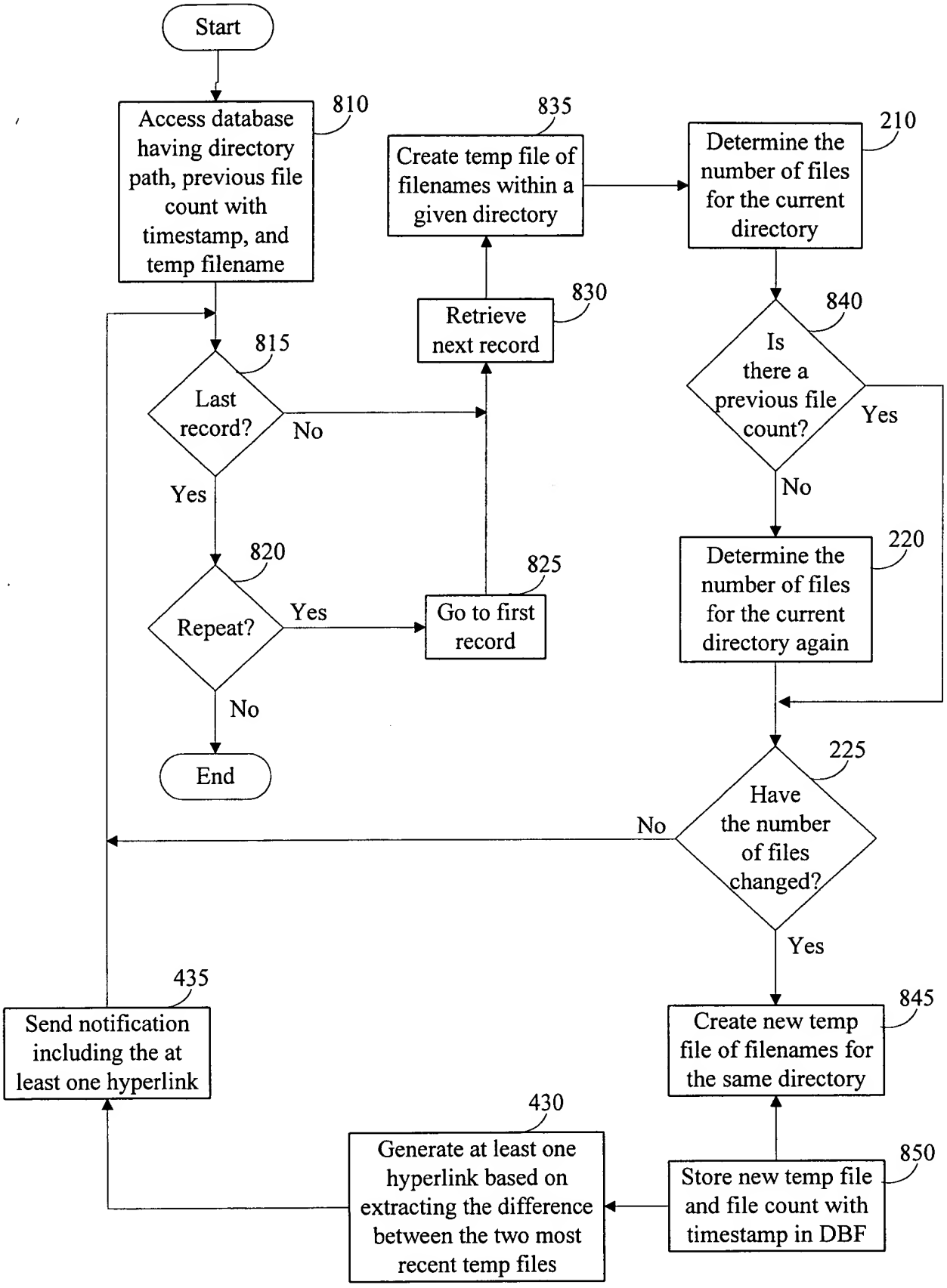
Start
Access database having directory path, previous file count with timestamp, and temp filename
810
Last record?
815
No
Yes
Repeat?
820
Yes
No
End
Retrieve next record
830
Go to first record
825
Create temp file of filenames within a given directory
835
Determine the number of files for the current directory
210
Is there a previous file count?
840
Yes
No
Determine the number of files for the current directory again
220
Have the number of files changed?
225
No
Yes
Create new temp file of filenames for the same directory
845
Store new temp file and file count with timestamp in DBF
850
Generate at least one hyperlink based on extracting the difference between the two most recent temp files
430
Send notification including the at least one hyperlink
435

Fig. 8

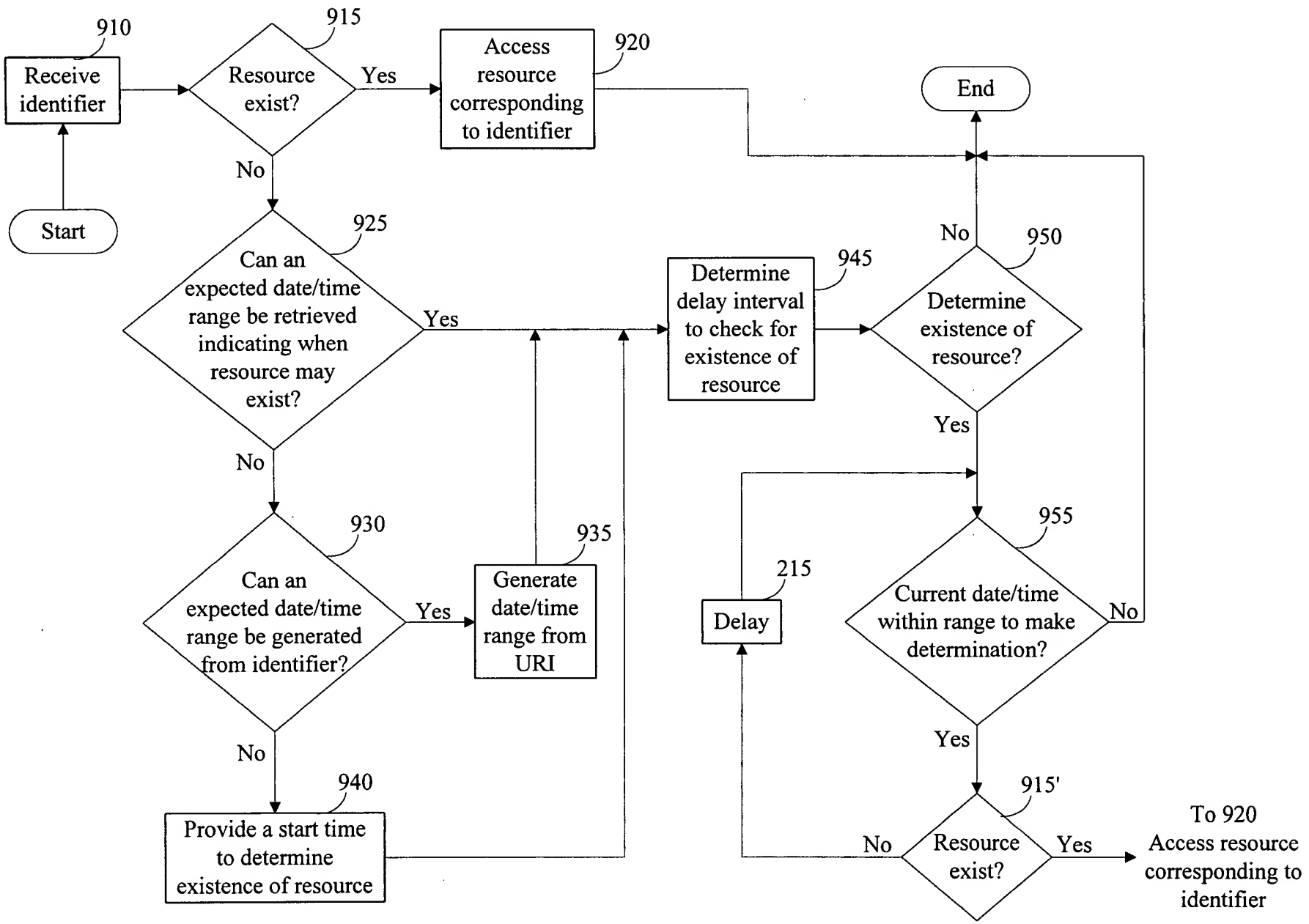
910
Receive identifier
915
Resource exist?
Yes
Access resource corresponding to identifier
920
End
Start
No
925
Can an expected date/time range be retrieved indicating when resource may exist?
Yes
945
Determine delay interval to check for existence of resource
No
950
Determine existence of resource?
Yes
No
930
Can an expected date/time range be generated from identifier?
Yes
935
Generate date/time range from URI
955
215
Delay
Current date/time within range to make determination?
No
Yes
No
940
Provide a start time to determine existence of resource
915'
Resource exist?
No
Yes
To 920
Access resource corresponding to identifier

Fig. 9